Invention Disclosure Form

INVENTION DISCLOSURE



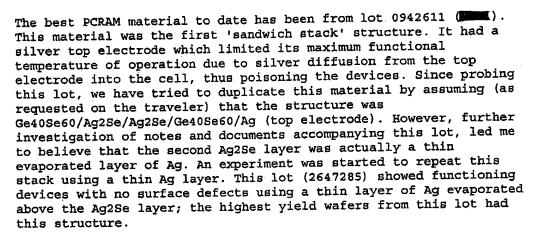
1. INVENTOR (S):

Kristy A Campbell

- 2. DESCRIPTION:
 - Title:

Improved Performance PCRAM Cell

• Brief Description:

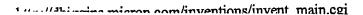


This experiment covers the formation of the PCRAM stack structure by evaporating a layer of silver above the Ag2Se layer. This technique has been shown to work (lot 2647285) and is not currently covered in our stack patent (). The advantages of this method are that one can add the correct amount of silver directly to the Ag2Se layer rather than trying to put it under the top electrode. In this way, the devices are faster, more temperature resilient and have better cycling endurance.

- 3. CONCEPTION & DOCUMENTATION OF INVENTION:
 - Date when first conceived:
 - To whom was the idea first described:

Allen McTeer and Jiutao Li

On what date:



· Date of the first tangible record:

Type and location:

PCRAM experiment request documentation.

- 4. INFORMATION RELATED TO INVENTION:
 - Related invention disclosures:

Disclosures: describes the Ag2Se/Ge40Se60 structure.

describes the Ge40Se60/Ag2Se/Ge40Se60 structure.

Closest technology:

None.

Advantages of this invention over previous technology:

Faster speed, improved thermal stability.

- 5. IMPORTANT DATES:
 - If the invention has been disclosed outside the company, please specify to whom it has been disclosed, when, and in what form:

Not disclosed.

 If any articles describing your invention have been published, please specify the author(s), title of article, publication and date:

None published.

 If any engineering samples have been given out, please specify to whom and on what date they were given:

pieces of 0942611 were given to Kozicki in

 If any product using the invention has been sold or offered for sale, please specify to whom and on what date:

not offered for sale.

- 6. DISPOSITION OF THE INVENTION:
 - When will (or did) Micron begin use of the invention experimentally:
 - When will (or did) Micron begin production of this invention:

Page 3 of 3

TBD

7. MISCELLANEOUS INFORMATION:

- ARPA project:
- Was the invention developed during a joint development agreement or other contract with an outside company:

No.

• List developmental work outside of the company, including Government proposal or contract:

None.

This disclosure originated from work on the project:

PCRAM

 Has the subject matter of this disclosure been disclosed to any standards setting organization(JEDEC;IEEE;etc.):

No.

8. INVENTORS:

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City: Boise State: ID Zipcode: 83719

Citizenship : US

Company : Micron Technology, Inc.

Work Phone # : 363-12493 Mail Stop : 306

Dept Name: R&D Dept #: 861

Supervisor : Terry Gilton

Signature:

(All inventors must sign and date this disclosure form before it can be ac

9. WITNESS:

A witness should sign and date this disclosure. A witness in this case is a non-inventor who understands the nature of the invention and can corroborate the inventor(s) conception of the invention.

(Signature of Witness) (Date)

Note: Tf you have any questions or you need assistance completing this form, please call the Patent Department, ext. 84520.